

Data sheet

# Micro plate heat exchanger (MPHE): XB05

Description



Micro Plate Heat Exchangers - a revolutionary technology from Danfoss. Characterized by their unique plate pattern, MPHEs enable heat to be transferred more effectively than any previous model of heat exchangers.

**Benefits:**

- Energy and cost savings
- Better heat transfer
- Lower pressure loss
- More flexible design
- Longer life time

more on:  
[MPHE.danfoss.com](http://MPHE.danfoss.com)

XB05 is heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.

**Approval:**  
Pressure Equipment Directive (PED).

Ordering

1-pass heat exchanger **XB05M Cu**

Picture	No. of plates, n	Connection	Code No.
	10	Thread G 3/4	004B3556
	16		004B3557
	20		004B3558
	26		004B3559
	30		004B3560
	36		004B3561
	40		004B3562
	50		004B3563
	60		004B3564
	70		004B3565

Accessories-**Tailpieces**

Picture	Description	Connection	Code No. <sup>1)</sup>
	Solder tailpieces	G 3/4 /15 mm	004B2945
		G 3/4 /18 mm	004B2946
	Weld-on tailpieces	G 3/4 /DN 20	004B2944
	Threaded tailpieces	G 3/4 /G 3/4	004B2947
		G 3/4 /G 1	004B2953

<sup>1)</sup> One set contains 2 tailpieces with union nuts and gaskets

1-pass heat exchanger **XB05X Cu**

Picture	No. of plates, n	Connection	Code No.
	10	Thread G 3/4	079G1231
	16		079G1232
	20		079G1233
	26		079G1234
	30		079G1235
	36		079G1236
	40		079G1237
	50		079G1238
	60		079G1239
	70		079G1240

1-pass heat exchanger **XB05X StS**

Picture	No. of plates, n	Connection	Code No.
	10	Thread G 3/4	079G1242
	16		079G1243
	20		079G1244
	26		079G1245
	30		079G1246
	36		079G1247
	40		079G1248
	50		079G1249
	60		079G1250
	70		079G1251

Data sheet

**XB05**

Technical data

		XB05M Cu	XB05X Cu	XB05X StS
Max. working pressure	bar	25		10
Min. / Max. temperature	°C	-10/180	-10/150	
Flow medium	DH: Circulation water / glycolic water up to 50% DC: ethylene-, propylene-glycolic water, ethanol-water solutions and other suitable heat transfer media. (Please contact your Danfoss representative).			
Volume/channel	Ltr	0.021	L <sup>1)</sup> : 0.037 H <sup>2)</sup> : 0.026	
Connection type	Cylindrical external thread acc. to DIN ISO 228/1			
Connection size	G ¾			
Weight	kg	0.58 + 0.045 × n	0.51 + 0.048 × n	0.51 + 0.046 × n
<b>Materials</b>				
Plate	Stainless steel, EN 1.4404 (AISI 316L)			
Brazing	Copper (Cu); Stainless steel (StS)			

<sup>1)</sup> Low pressure drop side - can be either primary or secondary side, depends on selection in Hexact.  
<sup>2)</sup> High pressure drop side - can be either primary or secondary side, depends on selection in Hexact.  
 n = number of plates

Dimensions

Type	Connection	E (mm)	Weight empty (kg)
XB05M -...	G ¾ <sup>1)</sup>	8 + 1.19 × n	0.58 + 0.045 × n
XB05X -...	G ¾ <sup>1)</sup>	7.1 + 1.6 × n	0.51 + 0.048 × n

<sup>1)</sup> Cylindrical external thread acc. to DIN ISO 228/1  
 n = number of plates

**Tailpieces**

Picture	Description	Connection	mm			Code No.
			a	b	SW <sup>2)</sup>	
	Solder tailpieces	G ¾ / 15 mm	15	35	32	<b>004B2945</b>
		G ¾ / 18 mm	18	35	32	<b>004B2946</b>
	Weld-on tailpieces	G ¾ / DN 20	21.2	35	32	<b>004B2944</b>
	Threaded tailpieces	G ¾ / G ¾	¾"	40	32	<b>004B2947</b>
		G ¾ / G 1	1"	22	32	<b>004B2953</b>

<sup>2)</sup> Union nut, with across flats

**Danfoss A/S**

Heating Segment • heating.danfoss.com • +45 7488 2222 • E-Mail: heating@danfoss.com

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